

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A prestressed scaffolding system for supporting an excavated earth retaining wall by forming a polygonal closed section, comprising:

a tendon;

a prestressed wale comprising a plurality of triangular tendon supports, being in contact with the tendon, and located in the middle portion of said wale, a tendon-anchoring unit at both ends of said wale, and a connecting brace for connecting the tendon to said triangular tendon supports and to said tendon-anchoring unit; and

a strut constituted by a truss or a plurality of H-beams or an H-beam having a large cross section and supporting said tendon-anchoring unit,

wherein the triangular tendon support is constituted by a vertical member and inclined members, or only by the inclined members for forming a triangle and the vertical member and the inclined members are all connected to the wale,

wherein the tendon-anchoring unit forms an isosceles triangle, and a first corner of said isosceles triangle is reinforced by a reinforcing member,

wherein said tendon is fixed at a second corner of said isosceles triangle and tensioned by a hydraulic jack, and a member facing said second corner of said isosceles triangle is connected to the strut through a hydraulic jack or a screw jack, and a portion of said isosceles triangle which is connected with said wale has a length adjusting function.

2. (Canceled)

3. (Previously presented) The system as defined in claim 1, wherein said triangular tendon support is supported and connected by an intermediate pile and a support beam for preventing a vertical buckling of the tendon support.

4. (Currently Amended) ~~The system as defined in claim 1,~~ A prestressed scaffolding system for supporting an excavated earth retaining wall by forming a polygonal closed section, comprising:

a tendon; and

a prestressed wale comprising a plurality of triangular tendon supports, being in contact with the tendon, and located in the middle portion of said wale, a tendon-anchoring unit at both ends of said wale, and a connecting brace for connecting the tendon to said triangular tendon supports and to said tendon-anchoring unit;

wherein said tendon-anchoring unit fixes a tendon and couples with said wale for applying a compression force supported by an inclined brace or a vertical brace ~~said inclined members or vertical member~~, ~~said inclined members or vertical member being~~ which is inserted into the tendon-anchoring unit,

wherein the triangular tendon support is constituted by a vertical member and inclined members, or only by the inclined members for forming a triangle and the vertical member and the inclined members are all connected to the wale,

wherein the tendon, entered from one side of said tendon-anchoring unit, is fastened at an opposite side of said tendon-anchoring unit, a single wale or a double wale is supported by said tendon-anchoring unit, and said tendon-anchoring unit is equipped with a screw jack or a precedent load jack having a length adjusting function.

5. (Canceled)

6. (Currently Amended) ~~The system as defined in claim 4,~~ A prestressed scaffolding system for supporting an excavated earth retaining wall by forming a polygonal closed section, comprising:

a tendon;

a prestressed wale comprising a plurality of triangular tendon supports, being in contact with the tendon, and located in the middle portion of said wale, a tendon-anchoring unit at both ends of said wale, and a connecting brace for connecting the tendon to said triangular tendon supports and to said tendon-anchoring unit; and

a strut constituted by a truss or a plurality of H-beams or an H-beam having a cross section and supporting said tendon-anchoring unit,

wherein the triangular tendon support is constituted by a vertical member and inclined members, or only by the inclined members for forming a triangle and the vertical member and the inclined members are all connected to the wale,

wherein said tendon-anchoring unit forms a trapezoid, ~~and the corner of said trapezoid is reinforced by a reinforcing member,~~ said tendon and a second tendon from a second wale are ~~fixed at both lower corners, and tensioned by a hydraulic jack,~~ [[is]]

wherein ~~and a middle portion is directly connected to said truss strut or through a hydraulic jack or a screw jack.~~

7. (Canceled)

8. (Currently Amended) A prestressed scaffolding system forming a polygonal closed section only by using a prestressed wale comprising:

a tendon~~[[,]]~~;

a plurality of triangular tendon supports, being in contact with the tendon, and located in the middle portion of said wale;

~~[[a]]~~ corner tendon-anchoring units at both ends of said wale;

a length adjusting unit transmitting force from the tendon to an adjacent wale; and

a connecting brace for connecting the tendon to said triangular tendon supports and to said tendon-anchoring unit,

wherein the triangular tendon support is constituted by a vertical member and inclined members, or only by the inclined members for forming a triangle, and the vertical member and the inclined members are all connected to the wale,

wherein the tendon-anchoring unit is placed at a corner anchoring unit of the polygonal closed section with no supporting struts and is designed to be connected with said wale and to fix the tendon and a second tendon from a second wale at both sides of the tendon-anchoring unit by hydraulic jacks which tension the tendon and the second tendon.

Claims 9-11. (Canceled)